

(AP20 Rec'd 7 JUN PTO 02 JUN 2006

FORM PTO-1390 (Modified)  
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  
(REV 12-2004)

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>040373-0389</b> U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) <b>Unassigned 1501555</b>
INTERNATIONAL APPLICATION NO. PCT/JP2004/013433	INTERNATIONAL FILING DATE 09/15/2004	PRIORITY DATE CLAIMED 12/04/2003
TITLE OF INVENTION VARIABLE GAIN VOLTAGE/CURRENT CONVERTER CIRCUIT HAVING CURRENT COMPENSATION CIRCUIT FOR COMPENSATING FOR CHANGE IN DC CURRENT FLOWING INTO ACTIVE ELEMENT FOR PERFORMING VOLTAGE/CURRENT CONVERSION		
APPLICANT(S) FOR DO/EO/US Shinichi Hori		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> has been communicated by the International Bureau. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <input checked="" type="checkbox"/> is attached hereto. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau). <input type="checkbox"/> have been communicated by the International Bureau. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 30 (35 U.S.C. 371(c)(5)).</p>		
<b>Items 11 to 20 below concern other document(s) or information included:</b>		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information: OTHER</p>		

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U.S. APPLICATION NO. (If known, see 37 CFR 1.55)		INTERNATIONAL APPLICATION NO. PCT/JP2004/013433		ATTORNEY'S DOCKET NUMBER 040373-0389	
The following fees have been submitted:					
21. <input checked="" type="checkbox"/> Basic national fee		\$300	\$ 300.00		
22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)		\$100	\$ 200.00		
All other situations		\$200			
23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority		\$100			
International Search Report prepared and provided to the Office		\$400			
All other situations		\$500	\$ 400.00		
<b>TOTAL OF ABOVE 21, 22 and 23 =</b>		\$ 900.00			
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$ for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
57 - 100 = 0	/50 = 0		x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e))					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total Claims	7 - 20 = 0		x \$ 50.00	\$ 0.00	
Independent Claims	1 - 3 = 0		x \$ 200.00	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$ 360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 900.00			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.		+ \$ 0.00			
<b>SUBTOTAL =</b>		\$ 900.00			
Processing fee of 130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$			
<b>TOTAL NATIONAL FEE =</b>		\$ 900.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). 40.00 per property		\$ 40.00			
<b>TOTAL FEES ENCLOSED =</b>		\$ 940.00			
		<b>Amount to be refunded:</b>			
		<b>charged:</b>			
<p>a. <input type="checkbox"/> A check in the amount of \$0.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. <u>19-0741</u> in the amount of \$0.00 to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-0741</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Foley & Lardner LLP Customer Number: 22428		<p style="text-align: right;"><u>Philip J. Articola</u></p> <p style="text-align: right;">for / <u>Philip J. Articola</u> <u>David A. Blumenthal</u></p> <p style="text-align: right;">NAME <u>26,257</u></p> <p style="text-align: right;">REGISTRATION NUMBER <u>Reg. No. 38,819</u></p>			

June 2, 2006